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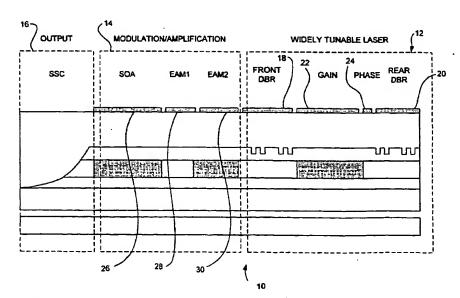
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(54) Title: METHOD OF CONVERTING AN OPTICAL WAVELENGTH WITH AN OPTO-ELECTRONIC LASER WITH INTEGRATED MODULATOR



(57) Abstract: A method of converting an optical wavelength includes providing a wavelength converter assembly with a photodetector and a laser with a common epitaxial structure. The epitaxial structure has areas of differing bandgap. An optical input having a first wavelength at the wavelength converter assembly is absorbed. A first electrical signal is generated from the photodetector in response to the optical input. The first electrical signal is conditioned to produce a conditioned first electrical signal. A second electrical signal is generated from the conditioned first electrical signal. A laser output is generated from a gain medium of the laser at a second wavelength in response to the second electrical signal.

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According to International Patent Classification (IPC) or to both national classification and IPC

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC

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X	US 5 742 045 A (KIMMET JAMES S ET AL) 21 April 1998 (1998-04-21) the whole document/	1,14,15, 19-21, 32,33

Y Further documents are listed in the continuation of box C.	Palent family members are listed in annex.		
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P document published prior to the international filling date but later than the priority date claimed	in the art. *8* document member of the same patent family		
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European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx, 31 651 epo nl. Fax: (+31-70) 340-3016	Hervé, D		

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